

ABSTRACT

A communication apparatus for playing sound signals has a cellular phone and a wireless earphone. The cellular phone communicates with the wireless earphone via Bluetooth signals primarily. The cellular phone has a first sound processing module for encoding, a music playing module for outputting music data and a Bluetooth module. The wireless earphone has a second sound processing module for decoding, an output unit for outputting music and a Bluetooth module. The music data from the music playing module can be encoded into digital data fitting the Bluetooth protocol by using the first sound processing module. Then, the digital data is sent to the wireless earphone. After being received, the digital data is decoded via the second sound processing module and then output by the output unit. Thereby, the cellular phone can use Bluetooth signals to radio the music data to the wireless earphone for playing music.

15